



US006197819B1

(12) **United States Patent**  
**Silverman et al.**(10) **Patent No.: US 6,197,819 B1**  
(45) **Date of Patent: Mar. 6, 2001**(54) **GAMMA AMINO BUTYRIC ACID ANALOGS AND OPTICAL ISOMERS**(75) Inventors: **Richard B. Silverman**, Morton Grove, IL (US); **Ryszard Andruszkiewicz**, Sopot (PL)(73) Assignee: **Northwestern University**, Evanston, IL (US)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **08/420,905**(22) Filed: **Apr. 11, 1995****Related U.S. Application Data**

(63) Continuation of application No. 08/064,285, filed on May 18, 1993, now abandoned, which is a continuation-in-part of application No. 07/886,080, filed on May 20, 1992, now abandoned, which is a continuation-in-part of application No. 07/618,692, filed on Nov. 27, 1990, now abandoned.

(51) **Int. Cl.<sup>7</sup>** ..... **A61K 31/195**(52) **U.S. Cl.** ..... **514/561; 562/553**(58) **Field of Search** ..... **562/553; 514/561**(56) **References Cited****U.S. PATENT DOCUMENTS**

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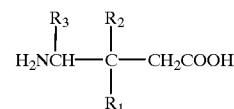
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(List continued on next page.)

*Primary Examiner*—Michael L. Shippen(74) *Attorney, Agent, or Firm*—Kohn & Associates; Charles W. Ashbrook; Kenneth I. Kohn(57) **ABSTRACT**

A compound of the formula



wherein R<sub>1</sub> is a straight or branched alkyl group having from 1 to 6 carbon atoms, phenyl, or cycloalkyl having from 3 to 6 carbon atoms; R<sub>2</sub> is hydrogen or methyl; and R<sub>3</sub> is hydrogen, methyl or carboxyl; which is useful in the treatment of seizure disorders. Processes are disclosed for the preparation of the compound. Intermediates prepared during the synthesis of the compound are also disclosed.

**4 Claims, No Drawings**